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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/683,964	03/06/2002	Shao-Tsu Kung	CEIP0044USA	7574

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(NAIPC) NORTH AMERICA INTERNATIONAL PATENT OFFICE
P.O. BOX 506
MERRIFIELD, VA 22116

EXAMINER

PERVEEN, REHANA

ART UNIT	PAPER NUMBER
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2116

DATE MAILED: 01/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Applicant(s)

09/683,964

Applicant(s)

KUNG, SHAO-TSU

Examiner

Rehana Perveen

Art Unit

2116

– The MAILING DATE of this communication appears on the cover sheet with the correspondence address –

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 13 August 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-23 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-5, 12-16 and 23 is/are rejected.
- 7) ☒ Claim(s) 6-11 and 17-22 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 06 March 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
- 1) ☒ Certified copies of the priority documents have been received.
 - 2) ☐ Certified copies of the priority documents have been received in Application No. _____.
 - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 8/13/04.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-5, 12-16, and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pitroda et al, Patent No. 6,705,520, in view of Walsh et al, Patent No. 6,745,937.

As to claims 1 and 13, Pitroda et al teach an add-on card for wireless communication capable of being inserted into a PDA comprising a rectangular housing having an opening formed on an upper side of the rectangular housing (col. 1 lines 28-40 and col. 5 lines 14-20), an interface connector disposed in the opening of the rectangular housing for connecting to the PDA, and a RF circuit enclosed in the rectangular housing and electrically connected to the interface connector for transmitting an RF signal corresponding to an electrical signal from the interface connector (col. 3 lines 31-65).

However, Pitroda et al do not expressly teach a power-managing circuit electrically connected to the interface connector for storing charges supplied by a first

Art Unit: 2116

DC from the interface connector, the power-managing circuit being electrically connected to the RF circuit, and the power-managing circuit providing a second DC to the RF circuit when the RF circuit transmits the RF signal.

Walsh et al teach a power-managing circuit electrically connected to an interface connector for storing charges supplied by a first DC from the interface connector, the power-managing circuit being electrically connected to an RF circuit, and the power-managing circuit providing a second DC to the RF circuit when the RF circuit transmits an RF signal (col. 7 line 54 – col. 8 line 67 and col. 20 lines 52-59).

It would have been obvious for one of ordinary skill in the art at the time of the invention to combine the teachings of Pitroda et al and Walsh et al because Walsh et al's the power-managing circuit providing a second DC to the RF circuit when the RF circuit transmits the RF signal, when incorporated into Pitroda et al, would have enabled improved power conservation in the overall system by allowing the higher power to be applied only when necessary.

As to claims 2 and 14, Walsh et al teach a current flow magnitude of the second DC is larger than a current flow magnitude of the first DC supplied from the interface connector (col. 8 lines 6-22).

Art Unit: 2116

As to claims 3 and 15, Pitroda et al teach the PDA comprising a battery for supplying power for operating the PDA and a touch screen for displaying pictures and accepting inputs by touch (col. 7 lines 52-64 and col. 9 lines 40-53).

As to claims 4 and 16, Pitroda et al teach the first DC power is supplied by the battery (inherent, col. 7 lines 52-64).

As to claim 5, Walsh et al teach that when the RF circuit does not transmit the RF signal, the power managing circuit stops providing the second DC (col. 23 lines 11-17).

As to claims 12 and 23, Pitroda et al and Walsh et al expressly teach all of the limitations as stated above including an interface connector conforming to a certain specification but does not specify the type of card specification. The examiner takes Official Notice that compact flash type card specification is a well-known type of card specification. Accordingly, it would have been obvious to one of ordinary skill in the art at the time of the invention to use the compact flash card specification for the interface connector.

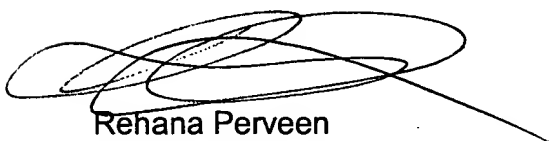
Allowable Subject Matter

Claims 6-11 and 17-22 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rehana Perveen whose telephone number is 571-272-3676. The examiner can normally be reached on 8:00am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynne H Browne can be reached on 571-272-3670. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Rehana Perveen
Primary Patent Examiner
Technology Center 2100